

Name \_\_\_\_\_ Date \_\_\_\_\_

## 2.3A MULTIPLYING RADICAL EXPRESSIONS

Simplify each radical expression

1.  $\sqrt{8x} \cdot \sqrt{8x} =$

2.  $\sqrt{8} \cdot \sqrt{5} =$

3.  $\sqrt{15} \cdot \sqrt{6} =$

4.  $\sqrt[3]{12} \cdot \sqrt[3]{9} =$

5.  $\sqrt[3]{16} \cdot \sqrt[3]{8} =$

6.  $2\sqrt{8} \cdot 3\sqrt{5} =$

7.  $6\sqrt{10} \cdot 3\sqrt{2} =$

8.  $\sqrt[3]{4} \cdot \sqrt[3]{12} =$

9.  $\sqrt{10a^6b^{11}} \cdot \sqrt{5a^5b^3} =$

10.  $\sqrt{6a^7b^{10}} \cdot \sqrt{15a^5b^9} =$

11.  $\sqrt{20a^9b^3} \cdot \sqrt{10a^6b^8} =$

12.  $3\sqrt{14a^{15}b^6} \cdot 4\sqrt{7a^2b^8} =$

13.  $-5\sqrt{12a^4b^7} \cdot 2\sqrt{6a^3b^{11}} =$

14.  $4\sqrt[3]{18a^7b^{12}} \cdot 2\sqrt[3]{9a^6b^7} =$

15.  $-2\sqrt[3]{16a^5b^{11}} \cdot 6\sqrt[3]{5a^7b^2} =$

16.  $-9(\sqrt{5} + \sqrt{3}) =$

17.  $6(4\sqrt{2} - 5\sqrt{7}) =$

18.  $-3(4\sqrt{3} - 8\sqrt{2}) =$